

CLAIMS WITHOUT MARKINGS

Amend the claims as follows:

a1 1 (Amended). An electrode array for use in a cochlear implant, said electrode array comprising electrodes selectively positioned along said electrode array to target selected regions of a cochlea.

Subs3
a2 3 (Amended). An electrode array according to claim 1 or 2 further comprising one region and another region, said one region having electrodes which are spaced from each other differently to electrodes from said other region of said electrode array.

a3 5 (Amended). An electrode array according to claim 4 wherein said spacing between adjacent electrodes is such as to correspond closely with the spacing of auditory receptors on the inner wall of the scala tympani.

Subs5
6 (Amended). A method of constructing a cochlear electrode array having electrodes for implantation into a cochlea of the patient as part of a cochlear implant system, the method comprising:
determining regions of a cochlea where stimulation is desired; and
positioning said electrodes in a location or locations that will enable stimulation of the desired site of the cochlea when the electrode array has been inserted.

a4

8 (Amended). A method according to claim 6 wherein said electrode array includes different regions and wherein the step of positioning the electrodes including positioning the electrodes such that the spacing between adjacent electrodes differs in said differing regions along the electrode array.

Insert the following new claims:

a5

10 (New). A method according to claim 6 wherein the cochlea includes receptors and wherein said step of determining said regions includes determining the locations of said receptors.

11 (New). A method according to claim 6 wherein the cochlea includes an organ of Corti having receptors and wherein said step of determining said regions is based on determining the locations of said receptors.

12 (New). A cochlear implant electrode array for implantation into the cochlea of a patient, said cochlea having receptors disposed at receptor positions, said array comprising a plurality of electrode spaced at predetermined electrode positions, said electrode positions being selected to match said receptor positions after implantation of said electrode array.

AMENDED CLAIMS WITH MARKINGS INDICATING CHANGES

Amend the claims as follows:

1 (Amended). An electrode array for use in a cochlear implant, said electrode array [having] comprising electrodes selectively positioned along said electrode array [in order] to [better] target selected regions of [the] a cochlea.

3 (Amended). An electrode array according to claim 1 or 2[, wherein] further comprising one region and another region, [of the electrode array has] said one region having electrodes which are spaced from each other differently to electrodes from [at least one] said other region of said electrode array.

5 (Amended). An electrode array according to claim [3 or] 4 wherein said spacing between adjacent electrodes is such as to correspond closely with the spacing of auditory receptors on the inner wall of the scala tympani.

6 (Amended). A method of constructing a cochlear electrode array having electrodes for implantation into a cochlea of the patient as part of a cochlear implant system, the method [including] comprising:

determining [the] regions of [the] a cochlea where stimulation is desired; and
positioning [the] said electrodes [along the electrode array] in a location or
locations that will enable stimulation of the desired site of the cochlea when the

electrode array has been inserted.

8 (Amended). A method according to claim 6 wherein said electrode array includes different regions and wherein the step of positioning the electrodes including positioning the electrodes such that the spacing between adjacent electrodes differs in said differing regions along the electrode array.